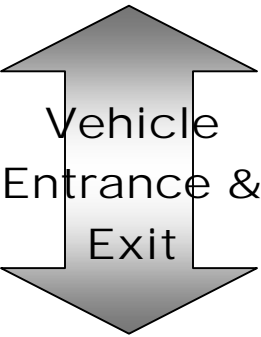
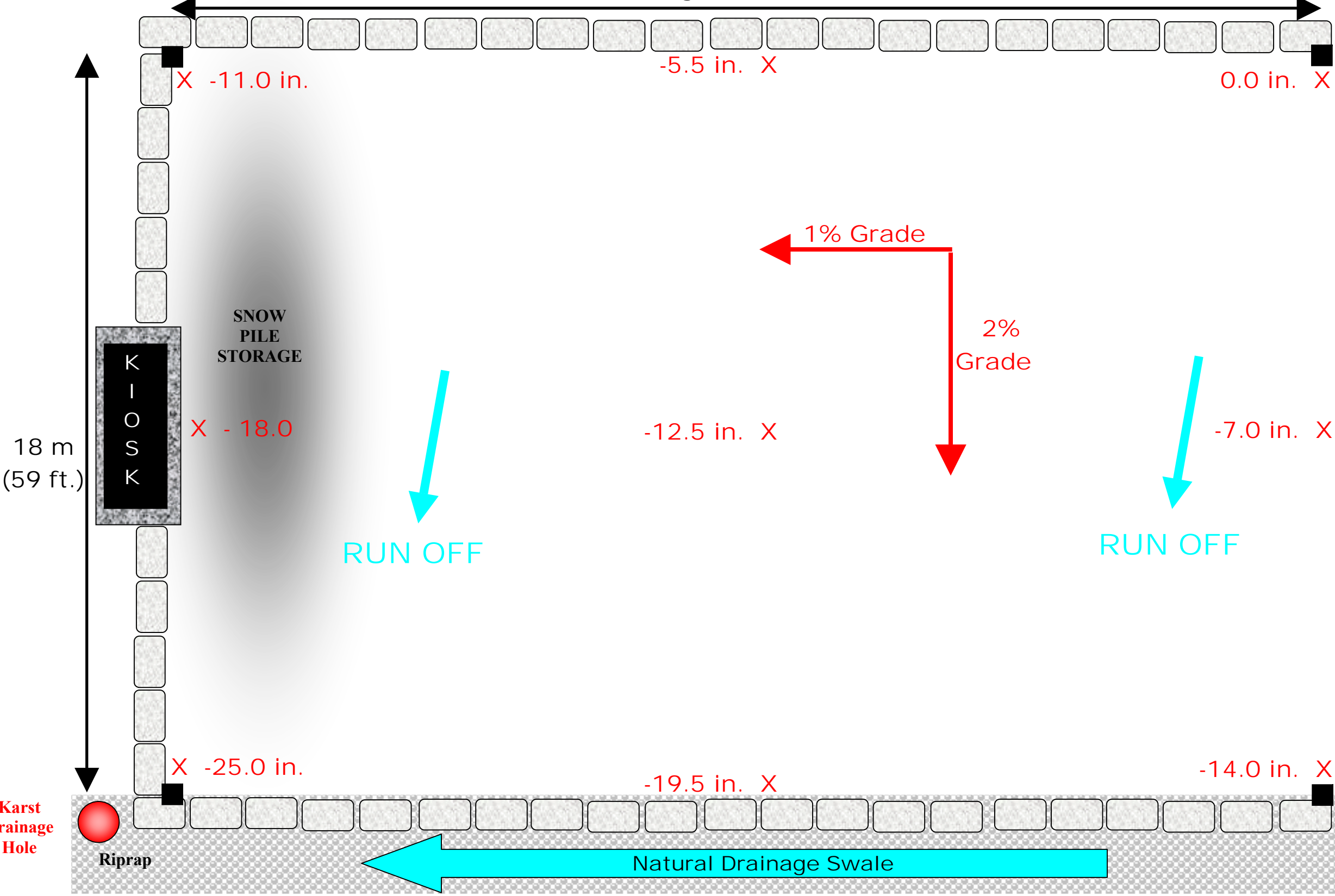


Callaghan's Rapids Conservation Area
Grading and Drainage Plan for Main Visitor Parking Lot
Marc Forget, October 15, 2021



Ridge Line = 28 m (92 ft.)



NOTES

- The existing parking lot is twelve metres in width and allows for only a single row of nine cars. The six-metre expansion to 18 metres shall double this capacity to two rows of eighteen cars.
- The original 2% over 1% grade and drainage swale remains unchanged. This grade is consistent with loading dock slopes and ADA of 2% for public parking lots.
- Two birdbaths exist due to wear and tear, but the surface is over twenty years old and has withstood the test of time very well. They shall be graded flat (not level) to eliminate slippery ice ponds during wintertime.
- The natural SE corner karst drain hole shall be protected with riprap. River rock riprap shall line the drainage swale to enhance flow rate and stability.
- Cut Fill Analysis was based on the contractors estimate and sufficient flexibility is in place to accommodate all necessary changes as needed. Gravel shall be 2" minus and 4" to 6" thick.
- The entire perimeter shall be lined with large 500 lb to 1-ton limestone blocks to deny unauthorized vehicular entry to the area.